

SECTION B-B

NOTE: TAPERED SLEEVE SHALL BE FIRMLY WEDGED INTO PIPE

END BEFORE BACKFILLING PIPE PAY LENGTH.

ALL DIMENSIONS SHOWN ARE IN mm UNLESS NOTED.

END SECTIONS INCLUDING ALL BOLTS, NUTS, RODS AND STRAPS SHALL BE FABRICATED FROM GALVANIZED STEEL MEETING THE REQUIREMENTS OF SECTION 1020 THE STANDARD SPECIFICATIONS.

ALL BOLTS UNLESS OTHERWISE SHOWN SHALL BE A307 BOLTS.

SAFETY SLOPE END SECTION WITH OPTIONAL SAFETY BAR SYSTEM.

NOTE: SEE DRIVEWAY STANDARD PLANS FOR BEVELED END SECTION REQUIREMENT.

WHEN REQUIRED, OPTIONAL TOE PLATE EXTENSION SHALL BE PUNCHED OR DRILLED AND BOLTED TO END SECTION TOE PLATE, STEEL FOR TOE PLATE EXTENSION SHALL BE SAME GAUGE AS END SECTION. DIMENSIONS SHALL BE OVERALL WIDTH LESS 150 mm BY 200 mm

ATTACHMENT TO CIRCULAR PIPES 375 mm THROUGH 600 mm DIAMETER SHALL BE MADE WITH TYPE #1 STRAPS. ALL OTHER SIZES SHALL BE ATTACHED WITH TYPE #2 CONNECTORS.

SAFETY BARS AND LONGITUDINAL BARS SHALL BE FABRICATED FROM STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53 SCHEDULE 40 SPECIFICATIONS. SAFETY BARS AND LONGITUDINAL BARS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 1020 OF STANDARD SPECIFICATIONS.

INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 725 AND 732 OF THE STANDARD SPECIFICATIONS.

SLOTTED HOLES FOR SAFETY BAR ATTACHMENT SHALL BE PROVIDED FOR ALL END SECTIONS.

MINOR VARIATIONS OF DETAIL WILL BE ACCECTED TO PERMIT THE USE OF A MANU-FACTURER'S STANDARD METHODS OF FABRICATION.

END SECTIONS FABRICATED FROM THICKER METAL THAN INDICATED WILL BE ACCEPTED.

SAFETY BARS ARE OPTIONAL FOR PIPES WITH DIAMETERS OF LESS THAN 525 mm.

ALL PIPES WITH DIAMETERS GREATER THAN 525 mm CONSTRUCTED WITHIN THE 1:10 APPROACH SLOPE OF ANY BULLNOSE GUARDRAIL SYSTEM SHALL HAVE SAFETY SLOPE END SECTION PROTECTION.

ALL BOLTS SHALL BE 10 mm DIAMETER AND GALVANIZED, UNLESS OTHERWISE SHOWN.

SKIRT SECTION IS DEFINED AS THE FLARED PORTION OF THE END SECTION INCLUDING SIDE AND BOTTOM (CENTER) PANELS AND APRON.

SKIRT SECTION FOR 300 mm TROUGH 600 mm PIPES SHALL BE MADE IN ONE PIECE.

SKIRT SECTIONS FOR 750 mm AND LARGER PIPES MAY BE MADE FROM UP TO 2 SHEETS JOINED BY RIVETING OR BOLTING ON CENTERLINE.

SKIRT SECTIONS FROM 1200 mm AND LARGER PIPES MAY BE MADE FROM UP TO 3 SHEETS JOINED BY RIVETING OR BOLTING EQUAL DISTANCE FROM CENTERLINE.

ALL 3 PIECE SKIRTS FOR 1500 mm PIPES SHALL HAVE 2.8 mm THICK SIDES AND 3.51 mm THICK BOTTOM (CENTER) PANELS. WIDTH OF BOTTOM PANELS SHALL BE GREATER THAN 20% OF THE PIPE PERIPHERY CONNECTOR SECTION. CORNER PLATES AND TOE PLATES

SHALL BE GALVANIZED	AND OF THE SAME OR GREATER THICKNESS AS THE SKIRT.
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
	SAFETY SLOPE END SECTION
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**** NO SAFETY SLOPE END SECTION REQUIRED FOR SINGLE PIPE INSTALLATION WITH PIPES 525 mm DIAMETER OR LESS.

